

REMARKS

At the outset, the Examiner is thanked for the thorough review and consideration of the pending application. The Office Action dated March 9, 2006 has been received and its contents carefully reviewed.

Claims 1, 3, 4, 7-9, 13-16, and 19-20 are hereby amended, and claims 2, 5, 6, 12, and 17 are canceled. Accordingly, claims 1, 3-4, and 7-11, 13-16, and 18-20 are currently pending. Reexamination and reconsideration of the pending claims are respectfully requested.

In the Office Action, claims 1-16 and 19-20 are rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,633,272 to Kumagawa et al. (hereinafter "Kumagawa") in view of U.S. Patent No. 6,320,562 to Ueno et al. (hereinafter "Ueno") and U.S. Patent No. 6,552,705 to Hirota (hereinafter "Hirota"); and claims 17-18 are objected to as being dependent upon a rejected base claim.

Applicant respectfully notes the indication that claims 17 and 18 contain allowable subject matter.

In the Office Action, claims 1-16 and 19-20 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Kumagawa in view of Ueno and Hirota. Applicant respectfully traverses the rejection of independent claim 1 and requests reconsideration. Independent claim 1 is allowable in that it recites "modulating source data and supplying the modulated source data to a display panel during a first period within a frame interval, wherein modulating the source data includes selecting a gray scale voltage level corresponding to the source data ... delaying the source data during the first period and supplying the delayed source data to the display panel during a second period within the frame interval," and "applying a black voltage data to the display panel during a third period within the frame interval, the black voltage data corresponding to a black picture to be displayed on the display panel, wherein the first period, the second period, and the third period do not overlap each other." Nothing in Kumagawa, Ueno, and Hirota, alone or in combination, teaches or suggests at least this feature of the claimed invention.

The Examiner cites Ueno as “using a look up table to modulate the source data,” (Office Action, p. 2, *citing* Ueno col. 16, ll. 13–18). Applicant respectfully disagrees. The “compensation” taught by Ueno is not the same as “modulation” recited in the claimed invention. For example, Ueno teaches “compensation” as being “an amount corresponding to a change in arithmetic data between two adjacent horizontal scanning periods.” (Ueno, col. 16, ll. 23–24). Applicant respectfully asserts that the modulation recited in the claimed invention is patentably distinct from the compensation taught by Ueno. Accordingly, for at least this reason, Applicant respectfully submits that claim 1, and its dependent claims 3–4, and 7, are allowable over any combination of Kumagawa, Ueno, and Hirota.

Applicant respectfully traverses the rejection of independent claim 8 and requests reconsideration. Independent claim 8 is allowable in that it recites “a modulator that modulates source data and supplies the modulated source data to a display panel during a first period within a frame interval, wherein the modulator includes a look-up table ... a delay circuit that delays the source data during the first period and supplies the delayed source data to the display panel during a second period within the frame interval,” and “a black voltage generator that generates a black voltage data to apply to the display panel during a third period within the frame interval, wherein the black voltage corresponds to a black picture to be displayed on the display panel, wherein the first period, the second period, and the third period do not overlap with each other.” Nothing in Kumagawa, Ueno, and Hirota, alone or in combination, teaches or suggest at least this feature of the claimed invention. Accordingly, for the same or similar reasons as those regarding claim 1 above, Applicant respectfully submits that claim 8, and its dependent claims 9–16, are allowable over any combination of Kumagawa, Ueno, and Hirota.

Applicant respectfully traverses the rejection of independent claim 19 and requests reconsideration. Independent claim 19 is allowable in that it recites “a data modulator that modulates source data and supplies the modulated source data to the liquid crystal display during a first period within a frame interval, wherein the data modulator selects a gray scale voltage level corresponding to the source data ... a delay circuit that delays the source data during the first period and supplies the delayed source data to the display panel during a second period within the frame interval,” and “a black voltage generator that generates a black voltage data

allowing a black picture on the display panel during a third period within the frame interval,” wherein “the first period, the second period, and the third period do not overlap each other.” Nothing in Kumagawa, Ueno, and Hirota, alone or in combination, teaches or suggests at least this feature of the claimed invention. Accordingly, for the same or similar reasons as those regarding claim 1 above, Applicant respectfully submits that claim 19, and its dependent claim 20, are allowable over any combination of Kumagawa, Ueno, and Hirota.

Applicant believes the foregoing amendments and remarks place the application in condition for allowance and early, favorable action is respectfully solicited.

If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at (202) 496-7500 to discuss the steps necessary for placing the application in condition for allowance. All correspondence should continue to be sent to the below-listed address.

If these papers are not considered timely filed by the Patent and Trademark Office, then a petition is hereby made under 37 C.F.R. § 1.136, and any additional fees required under 37 C.F.R. § 1.136 for any necessary extension of time, or any other fees required to complete the filing of this response, may be charged to Deposit Account No. 50-0911. Please credit any overpayment to deposit Account No. 50-0911. A duplicate copy of this sheet is enclosed.

Dated: June 19, 2006

Respectfully submitted,

By Valerie P. Hayes
Valerie P. Hayes

Registration No.: 53,005
MCKENNA LONG & ALDRIDGE LLP
1900 K Street, N.W.
Washington, DC 20006
(202) 496-7500
Attorneys for Applicant